

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

101599,313

Source:

FFUO

Date Processed by STIC:

10/3/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/599,313

DATE: 10/03/2006
TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

```

2 <110> APPLICANT: POSCO
3     POSTECH Foundation
4     CHA, Hyung Joon
5     HWANG, Dong Soo
7 <120> TITLE OF INVENTION: Mussel Bioadhesive
9 <130> FILE REFERENCE: 20010-06USA
11 <140> CURRENT APPLICATION NUMBER: US 10/599,313
C--> 12 <141> CURRENT FILING DATE: 2006-09-25
14 <150> PRIOR APPLICATION NUMBER: PCT/KR2005/000888
15 <151> PRIOR FILING DATE: 2005-03-25
17 <150> PRIOR APPLICATION NUMBER: US 60/556,805
18 <151> PRIOR FILING DATE: 2004-03-26
20 <160> NUMBER OF SEQ ID NOS: 35
22 <170> SOFTWARE: KopatentIn 1.71
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 30
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: primer
33 <400> SEQUENCE: 1
34 ggcctgcagc agttctgaag aataacaaggg                                30
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 29
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: primer
46 <400> SEQUENCE: 2
47 gttagatctat acggccggacc agtgaacag                                29
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 21
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: primer
59 <400> SEQUENCE: 3
60 cttgtatttt ccgctgtttt t                                21
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 21
65 <212> TYPE: DNA
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:

```

Page Not Comply
 Corrected Diskette Needed
 (Pg. 35) ②

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/599,313

DATE: 10/03/2006
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Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

69 <223> OTHER INFORMATION: primer
 72 <400> SEQUENCE: 4
 73 aaaaacagcg gaaaatacaa g 21
 76 <210> SEQ ID NO: 5
 77 <211> LENGTH: 228
 78 <212> TYPE: DNA
 79 <213> ORGANISM: Mytilus galloprovincialis
 81 <220> FEATURE:
 82 <221> NAME/KEY: CDS
 83 <222> LOCATION: (1)..(228)
 84 <223> OTHER INFORMATION: Mytilus galloprovincialis foot protein-5 cDNA
 87 <400> SEQUENCE: 5
 88 agt tct gaa gaa tac aaa ggt ggt tat tac cca ggc aat act tac cac 48
 89 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Thr Tyr His
 90 1 5 10 15
 92 tat cat tca ggt ggt agt tat cac gga tcc ggc tat cat gga gga tat 96
 93 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
 94 20 25 30
 96 aag gga aag tat tac gga aag gca aag aaa tac tat tat aaa tat aaa 144
 97 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys
 98 35 40 45
 100 aac agc gga aaa tac aag tat ctg aag aaa gct aga aaa tac cat aga 192
 101 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
 102 50 55 60
 104 aag ggt tac aag aag tat tat gga ggt ggt agc agt 228
 105 Lys Gly Tyr Lys Tyr Tyr Gly Gly Ser Ser
 106 65 70 75
 109 <210> SEQ ID NO: 6
 110 <211> LENGTH: 76
 111 <212> TYPE: PRT
 112 <213> ORGANISM: Mytilus galloprovincialis
 114 <400> SEQUENCE: 6
 115 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Thr Tyr His
 116 1 5 10 15
 118 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
 119 20 25 30
 121 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Lys Tyr Lys
 122 35 40 45
 124 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
 125 50 55 60
 127 Lys Gly Tyr Lys Lys Tyr Tyr Gly Gly Ser Ser
 128 65 70 75
 131 <210> SEQ ID NO: 7
 132 <211> LENGTH: 180
 133 <212> TYPE: DNA
 134 <213> ORGANISM: mytilus edulis
 136 <220> FEATURE:
 137 <221> NAME/KEY: CDS
 138 <222> LOCATION: (1)..(180)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/599,313

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Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

139 <223> OTHER INFORMATION: 6 times repeated sequence derived from *mytilus edulis* foot
140 protein-1
143 <400> SEQUENCE: 7
144 gct aaa ccg tct tac ccg acc tac aaa gca aaa ccc tcg tac cca 48
145 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro
146 1 5 10 15
148 ccg act tat aag gct aaa cct agc tat cca cct acg tac aaa gct aaa 96
149 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys
150 20 25 30
152 ccg tct tac ccg ccg act tac aaa gca aaa ccg tcc tac cct ccg acc 144
153 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr
154 35 40 45
156 tat aag gct aaa ccg agt tac ccc ccg act tac aaa 180
157 Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys
158 50 55 60
161 <210> SEQ ID NO: 8
162 <211> LENGTH: 60
163 <212> TYPE: PRT
164 <213> ORGANISM: *mytilus edulis*
166 <400> SEQUENCE: 8
167 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro
168 1 5 10 15
170 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys
171 20 25 30
173 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr
174 35 40 45
176 Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys
177 50 55 60
180 <210> SEQ ID NO: 9
181 <211> LENGTH: 411
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: Bioadhesive protein(mgfp-150) coding sequence
189 <220> FEATURE:
190 <221> NAME/KEY: CDS
191 <222> LOCATION: (1)..(411)
192 <223> OTHER INFORMATION: Bioadhesive protein(mgfp-150)
195 <400> SEQUENCE: 9
196 gct aaa ccg tct tac ccg ccg acc tac aaa gca aaa ccc tcg tac cca
197 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro
198 1 5 10 15
200 ccg act tat aag gct aaa cct agc tat cca cct acg tac aaa gct aaa
201 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys
202 20 25 30
204 ccg tct tac ccg ccg act tac aaa gca aaa ccg tcc tac cct ccg acc 144
205 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr
206 35 40 45
208 tat aag gct aaa ccg agt tac ccc ccg act tac aaa agt tct gaa gaa 192

RAW SEQUENCE LISTING
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Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

209	Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ser Ser Glu Glu			
210	50	55	60	
212	tac aag ggt ggt tat tac cca ggc aat tcg aac cac tat cat tca ggt	240		
213	Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His Tyr His Ser Gly			
214	65	70	75	80
216	ggt agt tat cac gga tcc ggc tac cat gga gga tat aag gga aag tat	288		
217	Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr Lys Gly Lys Tyr			
218	" " " 85 " " " 90 " " " 95 " " "			
220	tac gga aag gca aag aaa tac tat tat aaa tat aaa aac agc gga aaa	336		
221	Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys Asn Ser Gly Lys			
222	100	105	110	
224	tac aag tat cta aag aaa gct aga aaa tac cat aga aag ggt tac aag	384		
225	Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg Lys Gly Tyr Lys			
226	115	120	125	
228	aag tat tat gga ggt agc agt gaa ttc	411		
229	Lys Tyr Tyr Gly Gly Ser Ser Glu Phe			
230	130	135		
233	<210> SEQ ID NO: 10			
234	<211> LENGTH: 137			
235	<212> TYPE: PRT			
236	<213> ORGANISM: Artificial Sequence			
W-->	238 <220> FEATURE:			
W-->	238 <223> OTHER INFORMATION:	PLS insert		
W-->	238 <400> 10			
239	Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro			
240	1	5	10	15
242	Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys			
243	20	25	30	
245	Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr			
246	35	40	45	
248	Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ser Ser Glu Glu			
249	50	55	60	
251	Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His Tyr His Ser Gly			
252	65	70	75	80
254	Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr Lys Gly Lys Tyr			
255	85	90	95	
257	Tyr Gly Lys Ala Lys Lys Tyr Tyr Lys Tyr Lys Asn Ser Gly Lys			
258	100	105	110	
260	Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg Lys Gly Tyr Lys			
261	115	120	125	
263	Lys Tyr Tyr Gly Gly Ser Ser Glu Phe			
264	130	135		
267	<210> SEQ ID NO: 11			
268	<211> LENGTH: 411			
269	<212> TYPE: DNA			
270	<213> ORGANISM: Artificial Sequence			
272	<220> FEATURE:			
273	<223> OTHER INFORMATION: Bioadhesive protein(mgfp-051) coding sequence			
276	<220> FEATURE:			

PLS EXPLAIN SOURCE
of genetic
material.

✓ MANDATORY

IF <213>
response is
Artificial
or unknown
PLS EXPLAIN
IN Section
(2207-223)

What is the source of
genetic material?
INVALID
RESPONSE

See error
explanation
on page
6.
10/3/2006

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/599,313

DATE: 10/03/2006
TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

277 <221> NAME/KEY: CDS
 278 <222> LOCATION: (1)..(411)
 279 <223> OTHER INFORMATION: Bioadhesive protein(mgfp-051)
 282 <400> SEQUENCE: 11
 283 agt tct gaa gaa tac aag ggt tat tac cca ggc aat tcg aac cac 48
 284 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His
 285 1 5 10 15
 287 tat cat tca ggt ggt agt tat cac gga tcc ggc tac cat gga gga tat 96
 288 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
 289 20 25 30
 291 aag gga aag tat tac gga aag gca aag aaa tac tat tat aaa tat aaa 144
 292 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys
 293 35 40 45
 295 aac agc gga aaa tac aag tat cta aag aaa gct aga aaa tac cat aga 192
 296 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
 297 50 55 60
 299 aag ggt tac aag aag tat tat gga ggt agc agt gaa ttc gct aaa ccg 240
 300 Lys Gly Tyr Lys Tyr Tyr Gly Ser Ser Glu Phe Ala Lys Pro
 301 65 70 75 80
 303 tct tac ccg ccg acc tac aaa gc^aaaa ccc tcg tac cca ccg act tat 288
 304 Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr
 305 85 90 95
 307 aag gct aaa cct agc tat cca cct acg tac aaa gct aaa ccg tct tac 336
 308 Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr
 309 100 105 110
 311 ccg ccg act tac aaa gca aaa ccg tcc tac cct ccg acc tat aag gct 384
 312 Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala
 313 115 120 125
 315 aaa ccg agt tac ccc ccg act tac aaa 411
 316 Lys Pro Ser Tyr Pro Pro Thr Tyr Lys
 317 130 135

320 <210> SEQ ID NO: 12
 321 <211> LENGTH: 137
 322 <212> TYPE: PRT
 323 <213> ORGANISM: Artificial Sequence
 W---> 325 <220> FEATURE:
 W---> 325 <223> OTHER INFORMATION:
 W---> 325 <400> 12

326 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His
 327 1 5 10 15
 329 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
 330 20 25 30
 332 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Lys Tyr Lys
 333 35 40 45
 335 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
 336 50 55 60
 338 Lys Gly Tyr Lys Tyr Tyr Gly Ser Ser Glu Phe Ala Lys Pro
 339 65 70 75 80
 341 Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr

Pls explain source of
genetic material.

see erron

explanation

on page 6.

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/599,313

DATE: 10/03/2006
TIME: 10:20:33

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32)
(Sec.1.823 of new Rules)

Seq#: 10, 12, 14, 16, 18, 20, 22

ERROR EXPLANATION:

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/599,313

DATE: 10/03/2006
TIME: 10:20:33

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:238 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:10, <213>
ORGANISM:Artificial Sequence
L:238 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:10, <213>
ORGANISM:Artificial Sequence
L:238 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:238
L:325 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:12, <213>
ORGANISM:Artificial Sequence
L:325 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:12, <213>
ORGANISM:Artificial Sequence
L:325 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:325
L:428 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:14, <213>
ORGANISM:Artificial Sequence
L:428 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:14, <213>
ORGANISM:Artificial Sequence
L:428 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14,Line#:428
L:524 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:16, <213>
ORGANISM:Artificial Sequence
L:524 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:16, <213>
ORGANISM:Artificial Sequence
L:524 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16,Line#:524
L:613 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:18, <213>
ORGANISM:Artificial Sequence
L:613 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:18, <213>
ORGANISM:Artificial Sequence
L:613 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:18,Line#:613
L:715 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:20, <213>
ORGANISM:Artificial Sequence
L:715 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:20, <213>
ORGANISM:Artificial Sequence
L:715 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:20,Line#:715
L:832 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:22, <213>
ORGANISM:Artificial Sequence
L:832 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:22, <213>
ORGANISM:Artificial Sequence
L:832 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:22,Line#:832